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1. (Original) A monochromator comprising:

an optical ray input section which limits the width of optical rays input from a light source,

a first concave mirror for converting the optical rays passing through the optical ray input section into parallel rays,

a diffraction grating for separating the parallel rays by wavelength into diffracted rays,

a second concave mirror for condensing the diffracted rays when the diffracted rays are input,

an optical ray output section which limits a wavelength band width of the condensed rays, and

a substrate to which the optical ray input section, the first concave mirror, the diffraction grating, the second concave mirror, and the optical ray output section are fixed;

wherein a coefficient of linear expansion of a focal length of the first concave mirror, a coefficient of linear expansion of a focal length of the second concave mirror, and a coefficient of linear expansion of a material forming the substrate are approximately the same.

2. (Original) The monochromator according to claim 1, wherein, when a width of the optical ray output section is d, a focal length of each of the first and second concave mirrors when assembling the monochromator is L, a difference between an ambient

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temperature when operating the monochromator and the temperature when assembling the

monochromator is ΔT , and a numerical aperture of the concave mirror is a, the absolute value

of difference between the coefficient of linear expansion of the material forming the substrate

and the coefficients of linear expansion of the material of the first and second concave mirrors

is the absolute value of $d/(4aL\Delta T)$ or less.

3. (Original) The monochromator according to claim 1, wherein a

difference between the coefficient of linear expansion of the material forming the substrate

and the coefficients of linear expansion of the focal lengths of the first and second concave

mirrors is 10 x 10⁻⁶/°C or less.

ŕ. (Original) The monochromator according to claim 1, wherein the material

forming the substrate is a composite of aluminum and ceramic.

5. (Original) The monochromator according to claim 1, wherein at least one

of the optical ray input section and the optical ray output section is a slit.

6. (Original) A monochromator comprising:

a slit to limit a width of optical rays input from a light source,

a concave mirror to convert the optical rays passing through the slit into parallel

rays,

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a diffraction grating to separate the parallel rays into diffracted rays by wavelength, and

a substrate to which the slit, the concave mirror, and the diffraction grating are fixed;

wherein the concave mirror condenses the diffracted rays when the diffracted

rays are input, and the slit limits a wavelength band width of the condensed rays;

wherein a coefficient of linear expansion of a focal length of

the concave mirror and a coefficient of linear expansion of a material

forming the substrate are approximately the same.

7. (Original) The monochromator according to claim 6, wherein a

difference between the coefficient of linear expansion of the material forming the substrate

and the coefficient of linear expansion of the focal length of the first and second concave

mirror is 10 x 10⁻⁶/°C or less.

8. (Original) The monochromator according to claim 6, wherein the material

forming the substrate is a composite of aluminum and ceramic.

9. (Original) An optical spectrum analyzer comprising the monochromator

according to claim 1.

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 (Original) An optical spectrum analyzer comprising the monochromator according to claim 6.

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11. Cancel claim 11 without prejudice.

Add the following claims: 7

12. (New) The monochromator according to claim 1 wherein the first and second concave mirror are of glass material.

- 13. (New) The monochromator according to claim 12 wherein the difference between the coefficients of linear expansion of the first and second concave mirrors and the material of the substrate is equal to or less than 10X10⁻⁶/°C.
- 14. (New) The monochromator according to claim 13, wherein the material forming the substrate is a composite of aluminum and ceramic.
- 15. (New) The monochromator according to claim 6, wherein the concave mirror is of glass material.
- 16. (New) The monochromator according to claim 12 wherein the difference between the coefficients of linear expansion of the concave mirror and the material of the

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substrate is equal to or less than 10X10⁻⁶/°C.

17. (New) The monochromator according to claim 16, wherein the material

forming the substrate is a composite of aluminum and ceramic.